

AMENDMENTS TO THE CLAIMS

Claim 1. (Currently Amended)

A low radio frequency emissions network device comprising:

a chassis;

a network device component disposed in said chassis, said components emitting electromagnetic interference; and

a layer of foam, having a high insertion loss in the frequency range of electromagnetic interference, disposed on at least a portion of a surface of said network device, the layer of foam substantially covering the inner surface of the chassis,

~~wherein said layer of foam absorbs at least some of the electromagnetic interference~~

wherein said foam being disposed in proximity to at least one of said electromagnetic-interference-generating network device components,

wherein said foam absorbs electromagnetic interference and prevents at least some of the interference from exiting said chassis and prevents at least some of the interference from interfering with said network device,

said network device components comprising at least one integrated circuit emitting electromagnetic interference, said integrated circuit having a heat sink, wherein said foam is disposed directly on top of said heat sink.

Claim 2. (cancelled)

Claim 3. (Original)

A low radio frequency emissions network device according to claim 1 wherein the network device component includes electronic components.

Claim 4. (Original)

A low radio frequency emissions network device according to claim 1, wherein said network device is a network device operating in the 1-10 GHz range.

Claim 5. (Original)

A low radio frequency emissions network device according to claim 1, wherein said foam is doped to increase the insertion loss of said foam in the 1-10 GHz range.

Claim 6. (Original)

A low radio frequency emissions network device according to claim 1, wherein said chassis further comprising a door, wherein said foam is provided at least on a portion of said door of said chassis.

Claim 7. (Original)

A low radio frequency emissions network device according to claim 1, further comprising a Faraday cage.

Claim 8. (Original)

A low radio frequency emissions network device according to claim 7, wherein said foam is provided outside of said Faraday cage.

Claim 9. (Original)

A low radio frequency emissions network device according to claim 7, wherein said chassis further comprising a door, wherein said foam is provided at least on a portion of said door of said chassis outside said Faraday cage.

Claim 10. (Original)

A low radio frequency emissions network device according to claim 3, wherein said electronic components comprising at least one integrated circuit, wherein said foam is provided at least on top of said integrated circuit.

Claim 11. (Original)

A low radio frequency emissions network device according to claim 3, wherein said electronic components comprising at least one integrated circuit running at a clock speed of 1-10 GHz, wherein said foam is provided at least on top of said integrated circuit running at a clock speed of 1-10 GHz.

Claim 12. (Cancelled)

Claim 13. (Cancelled)

Claim 14. (Original)

A low radio frequency emissions network device according to claim 1, wherein said layer of foam is approximately .25 inches in thickness.

Claim 15. (Original)

A low radio frequency emissions network device according to claim 1, wherein said foam is doped with carbon to increase the insertion loss of said foam in the 1-10 GHz range.

Claim 16. (Original)

A low radio frequency emissions network device according to claim 1, wherein said chassis further comprising a door, said foam being disposed in a first location on at least a portion of said door of said chassis,

wherein said foam in said first location absorbs electromagnetic interference and prevents at least some of the interference from exiting said chassis.

Claim 17. (Cancelled)

Claim 18. (Original)

A low radio frequency emissions network device according to claim 16, wherein said foam being disposed in a second location in proximity to at least one of said electromagnetic-interference-generating network device components,

wherein said foam in said second location absorbs electromagnetic interference and prevents at least some of the interference from exiting said chassis and prevents at least some of the interference from interfering with the network device.

Claim 19. (Currently Amended)

A low radio frequency emissions network device according to claim 17 1, wherein said network device components comprising at least one integrated circuit emitting electromagnetic interference, wherein said foam is disposed directly on top of said integrated circuit.

Claim 20. (Cancelled)

Claim 21. (Original)

A low radio frequency emissions network device according to claim 18, said network device components comprising at least one integrated circuit emitting electromagnetic interference, wherein said second location is directly on top of said integrated circuit.

Claim 22. (Currently Amended)

A low radio frequency emissions network device according to claim 18, said network device components comprising at least one integrated circuit emitting electromagnetic interference, said integrated circuit ~~having a~~ including said heat sink, wherein said second location is directly on top of a said heat sink of said integrated circuit.

Claim 23. (Currently Amended)

A low electromagnetic interference emissions network device comprising:

a chassis, having a door;

electronic components disposed in said chassis, said components including at least one integrated circuit emitting electromagnetic interference in the range of 1-10 GHz and a heat sink;
and

a layer of foam having a high insertion loss in the range of 1-10 GHz disposed on at least a portion of said door, substantially covering the inner surface of said door,

wherein at least a portion of electromagnetic interference is absorbed by the foam and prevented from exiting the chassis, and wherein said foam is disposed directly on top of said heat sink.

Claim 24. (Currently Amended)

A low electromagnetic interference emissions network device comprising:

a network device component disposed in said network device, said component including at least one integrated circuit emitting electromagnetic interference and a heat sink; and

a layer of foam having a high insertion loss disposed on said network device component, substantially covering the surface of said network component,
wherein at least a portion of the electromagnetic interference is absorbed by the foam, and wherein said foam is disposed directly on top of said heat sink.